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UM/SBC147BUSA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of ) Group Art Unit:  
Judd et al. ) Examiner:  
Appln. No. 10/606,618 )  
Filed: June 26, 2003 )  
For: OMP85 PROTEINS OF *NEISSERIA* )  
      *GONORRHOEAE* AND *NEISSERIA* )  
      *MENINGITIDIS*, COMPOSITIONS )  
      CONTAINING SAME AND METHODS )  
      OF USE THEREOF )

Commissioner for Patents  
P.O. Box 1450  
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**INFORMATION DISCLOSURE STATEMENT**

Sir:

Applicant submits to the Examiner the attached Form PTO/SB/08A/B document listing and this paper pursuant to 37 CFR § 1.56 and § 1.97-1.98. Form PTO/SB/08A/B and this paper identify documents previously cited in US Patent Application No. 09/994,192, filed November 26, 2001, now US Patent No. 6,610,306, issued August 26, 2003, which is enclosed herewith as document AF.

**Certificate of Mailing under 37 CFR 1.8**

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According to 37 CFR § 1.98(d), Applicant has not enclosed copies of any US patents, publications, or other documents listed herein, which listed items were previously cited by or submitted to the US Patent and Trademark Office in prior parent US Patent Application No. 09/994,192, filed November 26, 2001, now US Patent No. 6,610,306 issued August 26, 2003. The prior parent patent application is relied upon herein for an earlier priority date under 35 USC § 120.

This Information Disclosure Statement is submitted less than three months from the filing date of this application and before the receipt of a first Office Action on the merits. Therefore, no fees are believed due.

The Director is hereby authorized to charge any deficiency in any fees due with the filing of this paper or credit any overpayment in any fees to our Deposit Account Number 08-3040.

#### REMARKS

The month of publication for documents AO, BC, BG, BM, BQ, and BY could not be determined. The years of publication for these documents are sufficiently earlier than the effective US filing date and/or the foreign priority date of the present application so that the particular months of publication of the documents is not in issue (MPEP 609).

The Examiner is respectfully requested to consider the enclosed documents identified in this paper and in the attached Form PTO/SB/08A/B during the course of examination of this application.

Respectfully submitted,

HOWSON AND HOWSON  
Attorneys for Applicant

By Mary E. Bak  
Mary E. Bak  
Registration No. 31,215  
Spring House Corporate Center  
Box 457  
Spring House, PA 19477  
(215) 540-9200



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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/606,618
				Filing Date	June 26, 2003
				First Named Inventor	Judd et al.
				Group Art Unit	
				Examiner Name	
Sheet	1	of	6	Attorney Docket Number	UM/SBC147BUSA

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AA	US-5,912,336-B1	06-15-1999	SPARLING	
	AB	US-5,698,438-B1	12-16-1997	STOJILJKOVIC	
	AC	US-5,834,591-B1	11-10-1998	NORMARK	
	AD	US-5,708,155-B1	01-13-1998	POTTER	
	AE	US-6,197,301-B1	03-06-2001	FLAVELL	
	AF	US-6,610,306-B1	08-26-2003	JUDD	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	AG	WO-98/21333-A2	05-22-1998	PULST		
	AH	WO-92/03467-A1	03-05-1992	SPARLING		
	AI	EP-474,313-A2	03-11-1992	RODRIGUEZ		

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Sheet	2	of	6

NONPATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include the name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item, (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	AJ	FLACK et al., "The Sequencing of the 80-kDA D15 Protective Surface Antigen of <i>Haemophilus influenzae</i> ", Gene, 156:97-99 (April 4, 1995)	
	AK	THOMAS et al., "Expression in <i>Escherichia coli</i> of a High-Molecular-Weight Protective Surface Antigen Found in Nontypeable and Type B <i>Haemophilus influenzae</i> ", Infection and Immunity, 58(6):1909-1913 (June, 1990)	
	AL	RUFFOLO et al., "Cloning, Sequencing, Expression, and Protective Capacity of the oma87 Gene Encoding the <i>Pasteurella multocida</i> 87-Kilodalton Outer Membrane Antigen", Infection and Immunity, 64(8):3161-3167 (August, 1996)	
	AM	LOOSMORE et al., "Outer Membrane Protein D15 is Conserved Among <i>Haemophilus influenzae</i> Species and May Represent a Universal Protective Antigen Against Invasive Disease", Infection and Immunity, 65(9):3701-3707 (September, 1997)	
	AN	ELKINS et al., "Species-Specific Uptake of DNA by Gonococci is Mediated by a 10-Base-Pair Sequence", J. Bacteriology, 173(12):3911-3913 (June, 1991)	
	AO	VON HEIJNE et al., "A New Method for Predicting Signal Sequence Cleavage Sites", Nucleic Acids Research, 14 (11):4683-4690 (1986)	
	AP	STRUYVE et al., "Carboxy-Terminal Phenylalanine is Essential for the Correct Assembly of a Bacterial Outer Membrane Protein", J. Mol. Biol., 2118:141-148 (March 5, 1991)	
	AQ	ALTSCHUL et al., "Basic Local Alignment Search Tool", J. Mol. Biol., 215:403-410 (October 5, 1990)	
	AR	TOMB et al., "The Complete Genome Sequence of the Gastric Pathogen <i>Helicobacter pylori</i> ", Nature, 388:539-547 (August, 1997)	
	AS	FRASER et al., "Genomic Sequence of a Lyme Disease Spirochete, <i>Borrelia burgdorferi</i> ", Nature, 390:580-586 (December, 1997)	

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Sheet	3	of	6	Attorney Docket Number	UM/SBC147BUSA

NONPATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include the name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item, (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	AT	KOSKI et al., "Isolation, Cloning, and Primary Structure of a Cationic 16-kDa Outer Membrane Protein of <i>Salmonella typhimurium</i> ", J. Biol. Chem., 264(32):18973-18980 (November, 1989)	
	AU	FLEISCHMANN et al., "Whole-Genome Random Sequencing and Assembly of <i>Haemophilus influenzae</i> Rd", Science, 269:496-512 (July, 1995)	
	AV	ROSSAU et al., "Ribosomal Ribonucleic Acid Cistron Similarities and Deoxyribonucleic Acid Homologies of <i>Neisseria</i> , <i>Kingella</i> , <i>Eikenella</i> , <i>Simonsiella</i> , <i>Alysiella</i> , and Centers for Disease Control Groups EF-4 and M-5 in the Amended Family <i>Neiseriaceae</i> ", International Journal of Systematic Bacteriology, 39:185-198 (April, 1989)	
	AW	SCHNELL et al., "Isolation of Components of the Chloroplast Protein Import Machinery", Science, 266:1007-1011 (November, 1994)	
	AX	KESSLER et al., "Identification of Two GTP-Binding Proteins in the Chloroplast Protein Import Machinery", Science, 266:1035-1039 (November, 1994)	
	AY	NEWHALL et al., "Cross-Linking Analysis of the Outer Membrane Proteins of <i>Neisseria gonorrhoeae</i> ", Infection and Immunity, 28(3):785-791 (June, 1980)	
	AZ	SWANSON et al., "Studies on <i>Gonococcus</i> Infection, XII. Colony Color and Opacity Variants of <i>Gonococci</i> ", Infection and Immunity, 19(1):320-331 (January, 1978)	
	BA	LAEMMLI et al., "Cleavage of Structural Proteins During the Assembly of the Head of Bacteriophage T4", Nature, 227:680-685 (August, 1970)	
	BB	JUDD et al., "Purification of Outer Membrane Proteins of the Gram-Negative Bacterium <i>Neisseria gonorrhoeae</i> ", Analytical Biochemistry, 173:307-316 (September, 1988)	

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	BC	MOORE, "Preparation and Analysis of DNA", in <u>Current Protocols in Molecular Biology</u> , F.M. Ausubel et al., (eds), New York, John Wiley and Sons, Supplement 25, 2.1.1 - 2.1.3 (1995)	
	BD	SOUTHERN, "Detection of Specific Sequences Among DNA Fragments Separated by Gel Electrophoresis", <u>J. Mol. Biol.</u> , 98:503-517 (November 5, 1975)	
	BE	MARCHION et al., "Generation of Antiserum to Specific Epitopes", <u>Molecular Biotechnology</u> , 6:231-240 (December, 1996)	
	BF	MANNING et al., "Omp85 Proteins of <i>Neisseria gonorrhoeae</i> and <i>Neisseria meningitidis</i> are Similar to <i>Haemophilus influenzae</i> D-15-Ag and <i>Pasteurella multocida</i> Oma87", <u>Microbial Pathogenesis</u> , 25:11-21 (July, 1998)	
	BG	RESCHKE et al., "Characterization of an 96 kDa Outer Membrane Protein of <i>Neisseria gonorrhoeae</i> Having Homology with the D15 Surface Protective Antigen of <i>Haemophilus influenzae</i> ", in <u>Pathogenic Neisseria</u> , W. Zollinger et al. (eds), p. 44, NIH, Bethesda, MD (1996)	
	BH	COHEN et al., "Mucosal Infection with <i>Neisseria gonorrhoeae</i> , Bacterial Adaptation and Mucosal Defenses", <u>J. Clin. Invest.</u> , 89:1699-1705 (June, 1992)	
	BI	KANEKO et al., "Sequence Analysis of the Genome of the Unicellular <i>Cyanobacterium synechocystis</i> sp. Strain PCC 6803. II. Sequence Determination of the Entire Genome and Assignment of Potential Protein-Coding Regions", <u>DNA Research</u> , 3:109-136 (June 30, 1996)	
	BJ	MANNING et al., " <i>Neisseria gonorrhoeae</i> Outer Membrane Protein (omp85) Gene, Complete cds", EMPRO Database Accession Number U81959 (February 22, 1997)	
	BK	MANNING et al., " <i>Neisseria meningitidis</i> Outer Membrane Protein (omp85) Gene, Complete cds" EMPRO Database Accession Number AF021245 (October 3, 1997)	

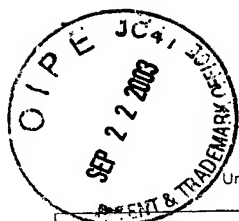
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Sheet	5	of	6	Attorney Docket Number	UM/SBC147BUSA

NONPATENT LITERATURE DOCUMENTS				
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	BL	UHLEN et al., "Gene Fusion Vectors Based on the Gene for <i>Staphylococcal</i> Protein A", <i>Gene</i> , 23(3):369-378 (September, 1983) (Abstract)		
	BM	HOUGHTON et al., "Relative Importance of Position and Individual Amino Acid Residues in Peptide Antigen-Antibody Interactions: Implications in the Mechanism of Antigenic Drift and Antigenic Shift", in <i>Vaccines</i> , pp. 21-25, F. Brown et al., (eds), Cold Spring Harbor Laboratory (1986)		
	BN	LEWIS et al., "Identification of an Iron-Regulated Outer Membrane Protein of <i>Neisseria meningitidis</i> Involved in the Utilization of Hemoglobin Complexed to Haptoglobin", <i>J. Bacteriology</i> , 177(5):1299-1306 (March, 1995)		
	BO	LEWIS et al., "Molecular Characterization of hpuAB, the Haemoglobin-Haptoglobin-Utilization Operon of <i>Neisseria meningitidis</i> ", <i>Molecular Microbiology</i> , 23(4):737-749 (February, 1997)		
	BP	BLASIUS et al., "Two Distinct Outer Membrane Serotype Subcomplexes of <i>Neisseria meningitidis</i> Serogroup A", <i>Infection and Immunity</i> , 58(6):2008-2010 (June, 1990)		
	BQ	FERREIROS et al., "Analysis of the Molecular Mass Heterogeneity of the Transferring Receptor of <i>Neisseria meningitidis</i> and Commensal <i>Neisseria</i> ", <i>FEMS Microbiology Letters</i> , 83:247-254 (1991)		
	BR	DYER et al., "Isolation by Streptonigrin Enrichment and Characterization of a Transferrin-Specific Iron Uptake Mutant of <i>Neisseria meningitidis</i> ", <i>Microbial Pathogenesis</i> , 3:351-363 (November, 1987)		
	BS	ANDERSON et al., "Gonococcal Transferrin-Binding Protein 2 Facilitates but is not Essential for Transferrin Utilization", <i>J. Bacteriology</i> , 176(11):3162-3170 (June, 1994)		
	BT	LEGRAIN et al., "Cloning and Characterization of <i>Neisseria meningitidis</i> Genes Encoding the Transferrin-binding Proteins Tbp1 and Tbp2", <i>Gene</i> , 130:73-80 (August 16, 1993)		

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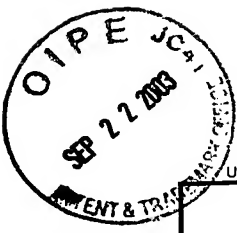
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Total Number of Pages in this Submission	9	Attorney Docket Number	UM/SBC147BUSA

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Remarks		

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Firm or Individual Name	Mary E. Bak HOWSON AND HOWSON
Signature	<i>Mary E. Bak</i>
Date	September 15, 2003

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